

Plant guard cell-specific regulatory cis-active element useful for promoter constructs and for identification of components of guard cell signal pathways comprises specific sequences

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Abstract of DE19904754

A regulatory cis-active element, which comprises at least a nucleic acid sequence (I), (II) and/or a complementary sequence in the context of a promoter for mediating stomatal guard cell-specific gene expression is new. A new regulatory cis-active element comprises at least a nucleic acid sequence (I), (II) and/or a complementary sequence in the context of a promoter for mediating stomatal guard cell-specific gene expression. Independent claims are also included for: (1) producing a recombinant promoter for guard cell-specific or -additive gene expression, comprising adding a regulatory cis-active element to a foreign promoter, which has no guard cell-specific activity; (2) a recombinant promoter produced by (1); (3) a DNA construct, especially an expression construct, comprising a recombinant promoter as in (2); (4) a vector, plasmid, cosmid, bacmid, virus or phage genome comprising (3); (5) a transformed microorganism comprising (3); and (6) a transgenic plant, plant part, plant cell or seed comprising (3). TAAAG (I) AAAAG (II)

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